Index of Claims

| Application N |
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10/051,015

Examiner

Art Unit

Gwendolyn A. Blackwell-Rudasill 1775

Applicant(s)

TSUBATA ET AL.

√ Rejected
= Allowed

- (Through numeral) Cancelled

Restricted

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N Non-Elected

I Interference

A Appeal
O Objected

| Cla                    | im       | Date     |                     |           |          |          |          |          |                 | Cla  | Claim Date |          |                     |                    |         |               |          | Cl           | Claim           |               |       |            | Date                |               |          |  |              |          |           |           |
|------------------------|----------|----------|---------------------|-----------|----------|----------|----------|----------|-----------------|------|------------|----------|---------------------|--------------------|---------|---------------|----------|--------------|-----------------|---------------|-------|------------|---------------------|---------------|----------|--|--------------|----------|-----------|-----------|
|                        | a        | 4        |                     |           |          |          |          |          |                 |      | _          | a        |                     |                    |         |               |          |              |                 |               | _     | ਯ          |                     |               |          |  |              |          | -         |           |
| Final                  | Original | 6/15/04  |                     | ı         |          |          |          |          |                 |      | Final      | Original |                     |                    |         |               |          |              |                 |               | Final | Original   |                     |               | i        |  |              |          |           |           |
| 证                      | Ö        | 6/1      |                     |           |          |          |          |          |                 |      | 证          | Ori      |                     |                    |         |               |          |              |                 |               | ш     | Ö          |                     | İ             |          |  |              |          | 1         | ł         |
|                        |          | <u> </u> | $\vdash$            | _         |          | _        | _        | _        | Н               |      |            | 51       | $\vdash$            | +                  |         | +             | -        |              | H               |               |       | 101        | $\dashv$            | +             | +        | 1  |              | $\dashv$ | ᆉ         | $\dashv$  |
|                        | 1        |          | $\perp$             |           |          |          | -        | $\vdash$ | Н               |      |            | 52       | -                   |                    | ╁       | +             | +        |              | Н               |               |       | 102        | $\dashv$            |               | +        |  | _            | $\vdash$ | $\dashv$  | $\dashv$  |
|                        | 3        | =        | $\dashv$            |           | !        |          | -        | -        | Н               |      |            | 53       | -                   | +                  | +       | +             | +        | ┥            | $\vdash$        |               |       | 103        | $\dashv$            | +             | ╁        | 1  | -            | -        | $\dashv$  | $\dashv$  |
|                        | 4        | -        | -                   |           |          | $\vdash$ | -        | $\vdash$ | $\vdash$        | _    |            | 54       | $\vdash$            | +                  | ╁       | +             | -        | +-           |                 |               |       | 104        | $\vdash$            | -             | ╈        |  |              | H        | $\dashv$  | 一         |
| $\vdash$               | 5        | =        | $\vdash$            |           |          |          | -        | $\vdash$ | Н               |      |            | 55       | -                   | +                  | +       | +             |          | +            | Н               |               |       | 105        | $\Box$              | 1             | T        |  | -            |          | 寸         | $\dashv$  |
|                        | 6        | =        | $\Box$              | $\neg$    | _        |          |          | $\vdash$ | $\Box$          |      |            | 56       | Ħ                   | 十                  | T       | $\top$        |          | 1            | П               |               |       | 106        |                     |               | 1        |  |              |          | コ         | ᅱ         |
|                        | 7        | =        |                     |           |          |          |          |          |                 |      |            | 57       |                     |                    |         |               |          |              |                 |               |       | 107        |                     |               |          |  |              |          | $\Box$    |           |
|                        | 8        |          |                     |           |          |          |          |          |                 |      |            | 58       |                     |                    |         |               |          |              |                 |               |       | 108        |                     |               |          |  |              |          | _         |           |
|                        | 9        | =        |                     |           |          |          |          |          |                 |      |            | 59       |                     | $\perp$            | ┸       |               |          | <u> </u>     | Щ               |               |       | 109        |                     | _             | _        | _  |              | Ц        | 4         | _         |
|                        | 10       | =        | _                   | _         |          |          | L        |          | Ш               |      |            | 60       | Щ                   |                    | _       | $\bot$        |          |              | Ш               |               |       | 110        | $\sqcup$            | _ _           | $\perp$  | _  |              | $\sqcup$ | 4         | _         |
| L                      | 11       | =        | $\sqcup \downarrow$ | _         |          | L.       |          | Ш        | $\square$       |      |            | 61       | $\vdash \downarrow$ | +                  | +       | $\vdash$      |          | +            | $\vdash$        |               |       | 111        | $\vdash \downarrow$ |               | +-       |  | <u> </u>     | $\vdash$ |           |           |
|                        | 12       | =        | $\dashv$            | _         |          | <u> </u> | <u> </u> | Н        | $\sqcup$        |      |            | 62       | $\vdash$            | +                  | +-      | +             | +        | +            | $\vdash \vdash$ |               |       | 112<br>113 |                     |               | +        |  | $\vdash$     | $\vdash$ | $\dashv$  | $\dashv$  |
|                        | 13       | $\vdash$ | $\vdash$            | $\dashv$  |          | <u> </u> | <u> </u> | Н        | $\vdash \vdash$ | _    |            | 63<br>64 |                     | +                  | +       | +             | +        | +            | $\vdash$        |               |       | 114        | $\vdash$            | +             | +        | $\vdash$   | $\vdash$     | $\vdash$ | $\dashv$  | $\dashv$  |
| <b></b>                | 14<br>15 | $\vdash$ | $\dashv$            | -         | -        | -        | $\vdash$ | Н        |                 |      |            | 65       | $\vdash$            | +                  | +-      | +             | +        | +            | Н               |               |       | 115        |                     | +             | +        | <del>                                     </del> | $\vdash$     | $\vdash$ | $\dashv$  | $\dashv$  |
|                        | 16       | H        | 1                   | $\dashv$  |          |          | $\vdash$ | Н        | $\vdash$        |      |            | 66       | -                   | +                  | +       | +             | $\dashv$ | +            | $\vdash$        |               |       | 116        |                     | +             | +        |  | -            | -        | _         | ᆿ         |
| —                      | 17       |          | 1                   | $\dashv$  |          | _        |          | Н        | Н               | _    |            | 67       | $\dashv$            |                    | +       | +             | _        | +            | Н               |               |       | 117        | $\dashv$            | _             | +        |  |              | Ħ        | 寸         | ㅓ         |
|                        | 18       | =        | -                   |           |          |          |          | Н        | Н               | _    |            | 68       | $\top$              | $\dagger$          | +       | $\top$        | 1        | <b>+</b>     | H               |               |       | 118        | o                   | $\top$        | 1        |  |              | T        | ヿ         | 7         |
|                        | 19       |          | 寸                   | $\neg$    |          |          |          | П        | H               |      |            | 69       |                     | 1                  | $\top$  |               | $\neg$   | 1            |                 |               |       | 119        |                     |               |          |  |              |          | $\neg$    | $\exists$ |
|                        | 20       |          |                     |           |          |          |          |          |                 |      |            | 70       |                     | T                  |         |               |          |              |                 |               |       | 120        |                     |               |          |  |              |          | $\Box$    |           |
|                        | 21       |          |                     |           |          |          |          |          |                 |      |            | 71       |                     |                    |         |               |          |              |                 |               |       | 121        |                     |               |          |  |              |          |           |           |
|                        | 22       |          |                     |           |          |          |          |          |                 |      |            | 72       |                     |                    |         |               |          |              | Ш               |               |       | 122        |                     |               | $\perp$  | <u> </u>   | L            |          | $\dashv$  | _         |
|                        | 23       |          |                     |           |          |          |          |          | Ш               |      |            | 73       |                     |                    | _       | 1             | _        | _            | Ш               |               |       | 123        |                     |               | _        | $\perp$  | $oxed{oxed}$ | $\perp$  | $\dashv$  | _         |
| Ш                      | 24       | Ш        |                     | _         |          |          |          | <u> </u> | Ш               |      |            | 74       | $\perp$             | $\perp$            | $\bot$  | $\perp$       |          |              | Ш               |               |       | 124        | _                   | +             | _        |  |              | _        | $\dashv$  | 4         |
| $\sqcup$               | 25       | $\perp$  | _                   | 4         |          |          | L        | Ш        |                 |      |            | 75       | _                   |                    | +       | +             | _        | $\perp$      | -               |               |       | 125        |                     | +             | ╀        | <u> </u>   | _            |          | $\dashv$  | $\dashv$  |
|                        | 26       | Н        | -                   |           |          |          | <u> </u> | $\vdash$ | Н               |      |            | 76<br>77 | _                   | +                  | +-      | +             |          |              | Н               |               |       | 126<br>127 | $\vdash$            | +             | ╁        | ├  |              | -        | $\dashv$  | $\dashv$  |
| $\vdash$               | 27<br>28 | Н        |                     |           |          |          | -        | H        | H               |      |            | 78       | -                   | +                  | +       | +             | $\dashv$ |              | Н               |               |       | 128        | H                   | +             | +        |  | -            |          | $\dashv$  | $\dashv$  |
|                        | 29       | Н        | $\dashv$            | $\dashv$  | _        | _        | H        |          | H               |      |            | 79       | +                   | +                  | +       | +             | +        | +            | $\vdash \vdash$ |               |       | 129        |                     | +             | +        | H  | _            | -+       | $\dashv$  | ᅥ         |
| Н                      | 30       |          | $\dashv$            | $\dashv$  | _        |          |          | -        | $\vdash$        | _    |            | 80       |                     | +                  | +       | +             | $\dashv$ | <del> </del> | Н               |               |       | 130        | $\vdash$            | $\top$        | 1        | <del>                                     </del> |              |          | 十         | ┨         |
| $\vdash$               | 31       | Н        |                     | $\dashv$  |          | _        |          |          |                 |      |            | 81       |                     | T                  | $\top$  | $\top$        | +        | 1            | $\vdash$        |               |       | 131        | Ħ                   | $\neg \vdash$ |          |  |              |          | ヿ         | ヿ         |
|                        | 32       |          |                     | $\exists$ |          |          | П        |          | П               |      |            | 82       | T                   | 1                  | ╁       | 1             |          |              | П               |               |       | 132        |                     |               |          |  |              |          | $\exists$ |           |
|                        | 33       |          |                     |           |          |          |          |          |                 |      |            | 83       |                     |                    |         |               |          |              |                 |               |       | 133        |                     |               |          |  |              |          | $\Box$    |           |
|                        | 34       |          |                     |           |          |          |          |          |                 |      |            | 84       |                     |                    |         |               |          |              |                 | riiiriis<br>E |       | 134        |                     |               |          |  |              |          | _[        | $\Box$    |
|                        | 35       |          | П                   |           |          |          |          | Ш        | Щ               |      |            | 85       |                     | $\perp$            | $\perp$ | $\perp \perp$ |          | _            | Ш               |               |       | 135        | $\sqcup \downarrow$ | $\perp$       | _        | Щ  | Ш            |          | _         | $\dashv$  |
|                        | 36       |          | $\perp$             |           |          |          |          | Ш        | Ш               |      |            | 86       | $\sqcup$            | _                  | _       | Ш             | $\perp$  |              | Ш               |               |       | 136        | $\sqcup$            | 4             | 4_       |  | Ш            | 4        | _         | 4         |
|                        | 37       |          | $\perp$             | _         |          |          |          |          | $\sqcup$        |      |            | 87       | $\dashv$            | +                  | +       | $\sqcup$      | -        |              | $\vdash \vdash$ |               |       | 137        | 1                   | +             | +        | $\vdash$   |              | $\vdash$ | $\dashv$  | $\dashv$  |
|                        | 38       |          | _                   | _         |          |          | $\vdash$ | Ш        | $\vdash \vdash$ |      |            | 88       | -                   | -                  | - -     | +             | -        |              | $\vdash \vdash$ |               |       | 138<br>139 | $\dashv$            | -             | +        | $\vdash$   | $\vdash$     | $\dashv$ | $\dashv$  | $\dashv$  |
|                        | 39<br>40 | $\dashv$ | $\dashv$            | 4         | -        | _        | $\vdash$ | $\vdash$ | $\vdash$        | -    |            | 89<br>90 | +                   | +                  | +       | +             | +        | +            | Н               |               |       | 140        |                     |               | +        | $\vdash$   | Н            | $\dashv$ | $\dashv$  | $\dashv$  |
| $\vdash \vdash \vdash$ | 41       | $\dashv$ | $\dashv$            | $\dashv$  | -        | -        | $\vdash$ | $\vdash$ | H               |      |            | 91       | +                   | +                  | +-      | $\forall$     | +        | +            | ╁╌┤             |               |       | 141        | $\dashv$            | +             | +        | $\vdash$   | Н            | $\dashv$ | $\dashv$  | $\dashv$  |
|                        | 42       | $\vdash$ | +                   | $\dashv$  | $\dashv$ | -        |          | Н        | $\vdash \vdash$ |      |            | 92       | +                   | +                  | +       | $\forall$     | 十        | +            | $\vdash \vdash$ |               |       | 142        | $\dashv$            | +             | +        | $\vdash$   |              | +        | $\dashv$  | $\dashv$  |
|                        | 43       |          | +                   | $\dashv$  | $\dashv$ |          |          | H        | $\vdash$        |      |            | 93       | $\dashv$            | $\top$             | +-      | Н             | $\top$   | $\top$       | Н               | ŀ             |       | 143        | Ħ                   | 1             | 1        | $\vdash$   | М            | $\dashv$ | ヿ         | $\dashv$  |
|                        | 44       |          | $\dashv$            |           |          |          |          | П        | П               |      |            | 94       | $\dashv$            | $\top$             | 十       | 1             | 十        | $\top$       | П               |               |       | 144        |                     | $\top$        | $\top$   | П  |              |          | $\dashv$  | ヿ         |
|                        | 45       |          | $\top$              |           |          |          | П        | П        | $\Box$          |      |            | 95       | $\neg \uparrow$     | 1                  | 1       |               | ╛        | I            |                 |               |       | 145        |                     |               |          |  |              |          | J         |           |
|                        | 46       |          |                     |           |          |          |          |          |                 |      |            | 96       |                     |                    |         |               |          |              |                 |               |       | 146        | $\Box$              |               |          |  |              |          | $\Box$    | ╝         |
|                        | 47       |          |                     |           |          |          |          |          |                 |      |            | 97       |                     | $oldsymbol{\perp}$ | $\perp$ |               |          |              |                 |               |       | 147        |                     |               | <u> </u> |  |              |          | $\perp$   | _         |
|                        | 48       |          |                     |           |          |          |          | Ш        | Ш               |      |            | 98       |                     | $\perp$            | $\perp$ | $\perp$       | $\perp$  |              | Ш               |               |       | 148        | $\sqcup$            |               | 4        |  | Щ            | _        | 4         | $\dashv$  |
| <b> </b>               | 49       | $\Box$   | _                   |           | _        |          | Щ        | Ш        | Щ               |      |            | 99       | $\perp$             | _ _                | -       | $\sqcup$      | _ _      | _            | Ш               |               |       | 149        | $\dashv$            | $\perp$       | $\bot$   | Ш  | Ш            | $\dashv$ | $\dashv$  | 4         |
|                        | 50       |          |                     |           |          |          |          | Ш        | Ш               | لـــ |            | 100      |                     | $\perp$            | 丄       | $\perp$       | L        |              | Ш               |               |       | 150        |                     |               |          | Ш  | Ш            |          | 丄         | $\sqcup$  |